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000207" 59670560

## FIG. 1A

1	M	V	K	Q	Q	G	---	---	---	S	G	K	T	N	L	A	N	E	D	E	A	Y	E	A	I	F	G	G	E	F	G	---	S	L	E	I	G	S	Y	I	G	---	G	D	E	G	A	N	S	K	D	Y	T	E	H	I	S. cerevisiae															
1	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. pombe														
1	M	E	S	D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Drosophila														
1	M	G	P	G	C	O	L	L	R	T	A	A	I	T	A	A	I	M	S	D	T	D	S	D	E	S	A	G	G	P	E	S	L	A	G	F	L	F	G	N	I	N	G	A	Q	L	---	E	G	E	S	V	L	D	D	E	C	Human														
52	P	D	A	V	D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. cerevisiae														
28	K	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. pombe														
51	R	E	N	I	G	S	L	S	K	L	G	L	D	S	M	L	L	E	V	I	D	L	K	E	A	E	P	P	S	D	E	E	E	D	A	R	P	S	A	V	S	A	S	G	G	M	S	A	E	D	G	A	V	K	A	Drosophila																
63	K	K	H	L	A	G	L	G	A	L	G	L	G	S	L	I	T	E	L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Human														
108	Q	L	P	E	I	N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. cerevisiae														
80	I	H	K	E	F	G	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. pombe														
121	Q	D	A	I	D	Y	S	D	I	T	E	L	S	E	D	C	P	R	T	P	P	E	E	T	S	T	Y	D	D	L	---	E	D	A	I	P	A	S	K	V	E	A	K	L	I	K	D	K	E	L	M	P	P	P	P	P	P	G	P	M	K	K	D	Q	Human							
104	T	E	D	A	V	D	Y	S	D	I	N	E	V	A	E	D	E	S	R	R	Y	Q	T	M	G	S	I	Q	P	L	C	H	S	D	Y	D	E	D	Y	D	A	D	C	E	D	I	D	C	K	L	M	P	P	P	P	P	P	G	P	M	K	K	D	Q	Human							
162	G	H	S	Q	L	S	I	G	G	V	N	G	N	D	M	S	I	N	G	F	I	M	E	P	D	M	S	D	G	K	H	K	K	A	K	L	D	L	N	H	E	K	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. cerevisiae													
132	A	A	G	L	V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. pombe														
187	I	E	E	P	A	K	S	N	D	A	S	S	P	S	D	S	K	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Drosophila														
174	S	I	T	G	E	K	V	D	F	S	S	S	D	S	E	S	E	M	G	P	Q	E	A	T	Q	A	E	S	E	D	G	K	L	T	L	P	L	A	G	I	M	H	D	A	T	K	L	P	S	V	T	E	L	E	E	E	R	P	G	K	V	L	R	E	L	R	Human					
227	L	I	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. cerevisiae														
194	L	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. pombe														
250	L	F	G	P	G	K	P	T	S	L	P	Q	I	W	R	H	V	R	K	R	R	K	R	N	Q	S	R	D	Q	K	T	T	N	T	G	S	D	S	P	S	D	T	E	E	P	R	K	R	G	E	S	---	L	H	Y	A	A	E	P	T	P	A	E	C	M	S	Drosophila					
244	L	E	G	P	G	X	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Human														
278	Q	G	K	N	L	Q	S	N	S	A	S	R	R	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. cerevisiae														
231	N	S	K	S	L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	S. pombe														
317	D	D	E	D	K	L	L	G	D	F	N	S	E	D	V	R	P	E	G	P	D	I	N	G	E	N	S	D	Q	K	P	K	V	A	D	W	R	F	G	P	A	Q	I	W	Y	D	I	L	E	V	P	D	S	G	E	G	F	N	Y	G	F	K	T	K	A	A	S	T	S	S	Q	Drosophila
308	D	D	E	I	T	M	A	P	V	E	S	K	F	S	Q	S	T	G	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---																												

A

A

**FIG. 1B**

761 QVIESM S QIG LQ FQE DNEAY ---NFDSK LK S L E E N - L L P W N I T K N F I N S T Q M R A M I Q I H G V G D S.cerevisiae  
688 L L E S M Q V G V R Q L E D A G Y G K T M ---D E I N D D E D E E Q P A E Q L - L A P W I T T R N F I N A T Q G K A M L T L F G E G D S.pombe  
933 A Y F S M I A E Q - R L K D A G Y G E K F L F A P Q E D D D E E A Q L L D D E V K V A P W N T T R A Y I Q A M R G K C L L O L S G P A D Drosophila  
882 A Y Y S M I A E Q - R I K D A G Y G E K S F E A P E E F E E D E Q M K T D D E V R T A P W N T T R A E T A M K G K C I L E V T I G V A D Human

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# Fig. 1C

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818	P T G C G E G F S F L K T S M K G G . . . . . F V K . . . . . S.cerevisiae
744	P T G I G E G Y S E I R I S M K G G . . . . . F K P . . . . . S.pombe
1002	P T G C G E G F S Y V R V P N K P T Q T K E E Q E S Q P I - K R S V T G T D A D L R R L P L Q R A K E L L R Q F K V P E E E I K K L S R W E V Drosophila
956	P I G C G E G F S Y V K I P N K P T Q Q D D K E L P Q P V K K T V T G T D A D L R R L S L K N A K Q L L R K E G V P E E E I K K L S R W E V Human
839	. . . . . S G S P S S N N S S N K K G T N T H S Y N V A Q Q K A Y D E E I A K I W Y T H T K S L S I S N P . . . . . S.cerevisiae
765	. . . . . A G E T A D D K P E P Q T K - - N A H A Y N V A K Q Q R A Y E E E I N R I W N A I Q K R G L S I N N . . . . . S.pombe
1071	I D V V R T L S T E K A K A G E G M D K F S R G N R F S I A E H Q E R Y K E E C I Q R I F D L Q N R V L A S S E V L S T D E A E S S A S E E Drosophila
1026	I D V V R T M S T E Q A R S G E G P M S K E A R G S R E S V A E H Q E R Y K E E C I Q R I F O L Q N K V L S S T E V L S T D - T D S S S A F E D Human
889	. . . . . F E E M T N P D E I . . . . . N Q I N K . . . . . H V K T D R D D . . . . . K . . . . . S.cerevisiae
812	. . . . . L E E L A K K Y G I . . . . . N S I H D Y V E S N E E I T R E E . . . . . T P S S.pombe
1141	S D L E E L G K M L E N M L S N K K T S T Q L S R E R E E L E R Q E L L R Q L D E E H G G P S G S G G A K G A K G K D D P G Q M L A I N N Drosophila
1095	S D F E E W G K N I E N M L Q N K K T S S Q L S R E R E E Q E R K E I Q R M L A A G S A A S G N . . . . . N H R O D D T A S V T S L I N S S A Human
913	. . . . . K I L K I V R K K R D E N G I I Q R Q T I F I R D P R V I Q G Y I K I K E Q D K E D V N K L L E E D T S K I N N L E E L E K Q K L L Q S.cerevisiae
843	S D K V L R I V R L Y R D K N G N L E R K Q E T I H D D I V I H A Y L K - K R R E I D E Q S T A L D A V V P T G D E A I D - R R N R R R L E S.pombe
1211	Q G R I L R I T R T F R G N D G K E Y T R V E T V R R Q P V I D A Y K I R T T K D E Q F I K Q F A T L D E . . . . . Q K K E E M K R E K R R I Q Drosophila
1161	T G R C L K I Y R I F R D E E G K E Y V R C E I V R K P A V I D A Y V R I R T I K D E E F J R K F A L F D E . . . . . Q H R E E M R K E R R I Q Human
981	L E L A N L E K S Q Q R R A A R O N S K R N G . . . . . G A T R T E N S V D N G S D L A G V T D G K A A R N K G K N T T R . . . . . R S.cerevisiae
911	Q E L A K S O K N W E R R R A R H A K . . . . . . . . . . E G I N L N G . . . . . E G R . . . . . K P T I R . . . . . K S.pombe
121279	E Q L R I R I K R N Q E R E R L A O L A Q N Q K L Q P G G M P T S L G D P K S S G G H S H K E R D S G Y K E V S P S R K K F K L K P D L K L K Drosophila
1229	E Q L R R L K R N Q E K E K L . . . . . K G P P E K K P . . . . . . . . . . K K M K E R P D L K L K Human
1038	C A T C G Q I G H I R T N K S I C P M Y S S K D N P A S P . . . . . K . . . . . S.cerevisiae
947	C S N C G Q V G H M K T N K I C P L F G R P E G G L A T M L D K N . . . . . . . . . . . . . . . S.pombe
1349	C G A C G Q V G H M R T N K A C P L Y S G M Q S S L S Q . . . . . S . . . . . Drosophila
1264	C G A C G A I G H M R T N K F C P L Y - - Y Q T N A P P . . . . . S . . . . . Human

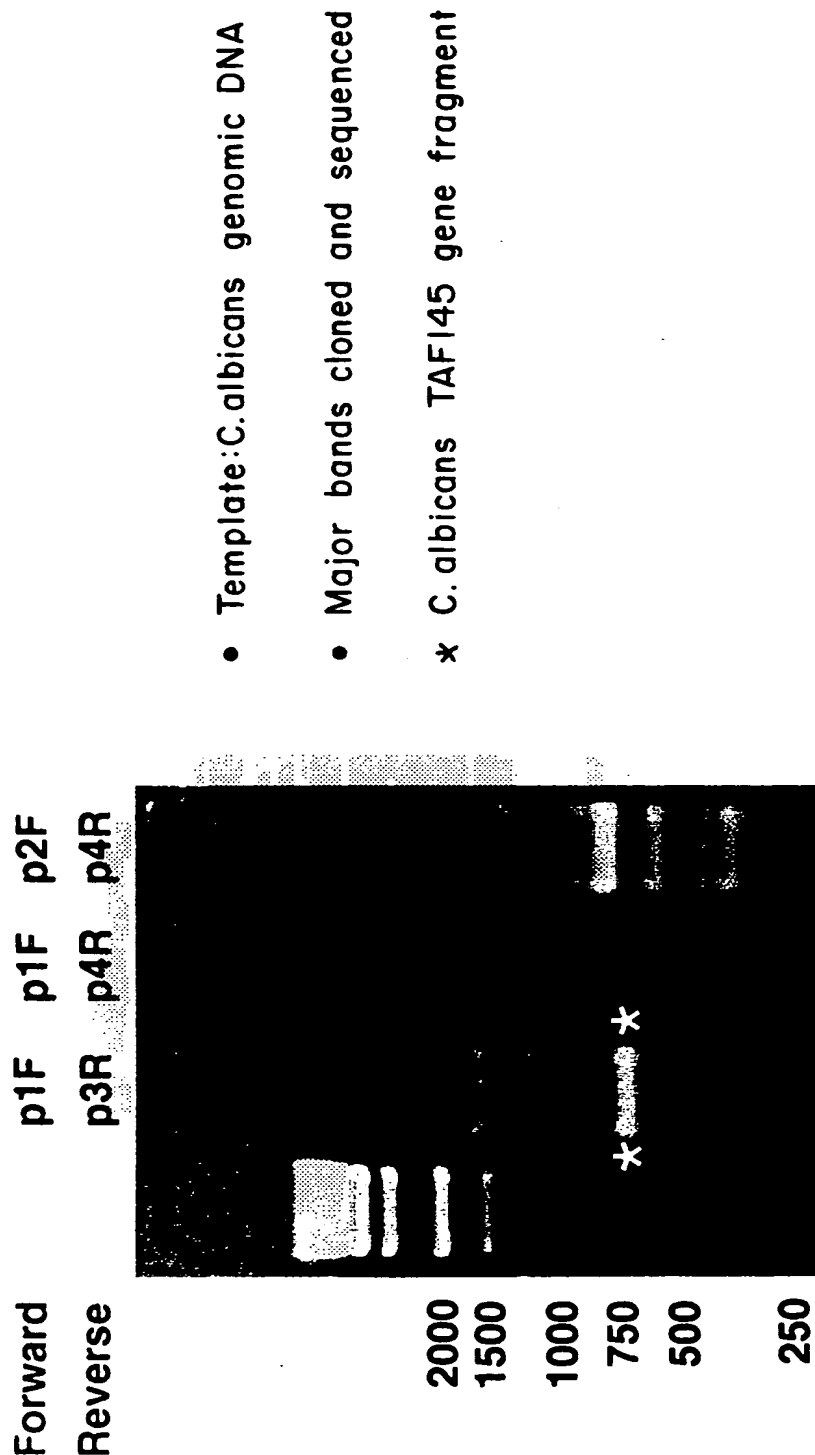
# FIG. 2A

<i>S. cerevisiae</i>	P G P N S R . . . . .	D P T G C G E G . . . . .	G H I R T N K
<i>S. pombe</i>	P G P H S R . . . . .	D P T G I G E G . . . . .	G H M K T N K
<i>Drosophila</i>	P G P N S K . . . . .	D P T G C G E G . . . . .	G H M R T N K
Human	P G P N S K . . . . .	D P T G C G E G . . . . .	G H M R T N K

TAF145p1F	5' CC(AT)GG(AT)CC(AT)AA(C/T)TCIA(A/G)(A/G)	
TAF145p2F		5' GA(C/T)CC(AT)AC(T/C/A)GG(A/T)TGTGG(A/T)GAAGG
TAF145p3R	CT(G/A)GG(T/A)TGACCC(T/A)ACACC(T/A)CTTCC	5'
TAF145p4R		CC(AT)GT(A/G)TAITC(T/C)AC(T/C/A)TT(G/A)TT 5'

FIG. 2B



## FIG. 3A

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1 aaaaaaaaaaagctccccgaaaaaactgaaaccaaacaacaaaaaagtaaaacacccctctacaaaactcttatat 80  
81 tataatccttggttacatttatatacgccaacaacaaaggataataacatttatgtatgataatgccagaagtcacacataaa 160  
161 tcaaacacaatatagaagaagatgaagacaaaagcatacaacaatcaatatgtaaatagtagtattccagatgatcaaaattat 240  
241 agaatcatatttccagaacgaaaaaactgcccatgctgaagatgccatcgattatgaagatatagacgaattggcagaagaa 320  
321 gaagatgtg ATG GAG GAT CTA CCC AGG GAT GAG GCA ATA AAT GGA TTA AAC TCA AAC AAC 380  
1 M E D L P R D E A I N G L N S N N 17  
381 AAC AAC AAC CAC GAT AAA GAT GAT GAT GAC GAC GAT GAA TTC AAT AGG TTA CTT CAA GAA 440  
18 N N N H D K D D D D D E F N R L L Q E 37  
441 GGG CAG CCT GAA TTG ACA AAT GAT GAA GAA ATG GCA GCT CAA GCT GCT GCT GAA TCT CAA 500  
38 G Q P E L T N D E E M A A Q A A E S Q 57  
501 TTT GAT GCT TTG TTT GGA AAC TCT AAT GAT TTT GAT AGT AAT ATT AGC CAC CAT GAT CAT 560  
58 F D A L F G N S N D F D S N I S H H D H 77  
561 ATG GGC GGC GAC AGT AAT GGT ATT ATT GAT GAT AAT CAC CAC AGC AGT GTA AAC GAC CAC 620  
78 M G G D S N G I I D D N H H S S V N D H 97  
621 GAT GGT TTA TTC AAC AAT TTA GGA AAT GGT AAT CAT CAT TTG CTA GAT GAT GAT AAT GAT GGC 680  
98 D G L F N N L G N G N H L I D D D N D G 117  
681 TTG AAT GAT TTA GGT GAA CTA TTT GAT GAT CAA CAA GAG GAC AGC AAT GTT ATC AAC ACT 740  
118 L N D L G E L F D D Q Q E D S N V I N T 137  
A \_\_\_\_\_ A

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# FIG. 3B

A		
741	AAG AAG CAT AAG CTA GAT GAC GAT AGC AAC AAC GAT GGC AAG ACT GCT CAA GAA GAT CAA	800
138	K K H K L D D S N N D G K T A Q E D Q	157
801	AAA GAG AAA AAT AAA CGA CAA TTG AAA CGG CAA AAA CTA CAA AAG ATT GTT AAA CAT	860
158	K E K E N K R Q L K R Q K L Q K I V K H	177
861	CTT GAG AAG GAA CAA ATC AAA CGA AAT ATA AAA TAT TAT TTC CCT ACT TAT TCA AGA CAT	920
178	L E K E Q I K R N I K Y Y F P T Y S R H	197
921	AGA CCA TTT AAT TTC CAC AAA TTT TTT TCA CCA AGT CCT CAG TAT TAC CGT TAT CAA AGA	980
198	R P P F N F H K F F S P S P Q Y Y R Y Q R	217
981	CCA GCA ATT GCC TTG TCG AAA AAT ATA AAA CCA TTA ATA CCT ACA AAA GTA AAT CTT GAA	1040
218	P A I A L S K N I K P L I P T K V N L E	237
1041	ATC GAG GTT GAT CAA AAG AAA ATT TTC AAA TTA AGA AGT GCT GAT ACT GCA TCG TTG TCA	1100
238	I E V D Q K K I F K L R S A D T A S L S	257
1101	CAC GAA GAC AAA AAT GTC ACC AAT ATT ACT CAA GAT GAC TTG GAT TTT ATC AAA AAT TTA	1160
258	H E D K N V T N I T Q D D L D F I K N L	277
1161	GAA AGC AAA AGA TCT TCT ATT GAC TCG TTT ATT AAA GAA ATT GAT TAC GTT AAA CGT GAT	1220
278	E S K R S S I D S F I K E I D Y V K R D	297
1221	TGG ACT AAT TGC GAC AAG TTT GAT CAT TAT TCG AAA GAT TTA GTT CTA TCT ACC ACT GAT	1280
298	W T N C D K F D H Y S K D L V L S T T D	317
B		

# FIG. 3C

B																					
1281	TGG	GAT	GAT	GAT	GCT	ATT	ATA	AAT	GCT	GGA	GAC	AAT	GAG	TAC	TCT	ATT	GTG	AAG	CCA	ATC	1340
318	W	D	D	A	I	I	N	A	G	D	N	E	Y	S	I	V	K	P	I		337
1341	AAT	GAG	CTT	TTG	CTC	AAC	AAT	CCC	TTG	GAC	AAT	AGT	AAA	CAG	AAT	AGA	CAA	AAA	ATC	GAG	1400
338	N	E	L	L	L	N	N	P	L	D	N	S	K	Q	N	R	Q	K	I	E	357
1401	AAT	GAC	AAT	ACT	ACC	AAC	AAC	TAT	AAC	CAA	AAC	AAT	AGT	AAT	GTC	CAA	GAT	GAG	GAG	GAG	1460
358	N	D	N	T	T	N	N	Y	N	Q	N	S	N	S	N	V	Q	D	E	E	377
1461	GAT	GAT	ATC	TTC	AAT	GGA	CAA	ATA	AAC	TTG	GAT	AAA	TTG	AAA	CTT	GAT	ATG	AAT	GAT		1520
378	D	D	I	F	N	G	Q	I	N	L	D	K	L	K	L	D	M	N	D		397
1521	CCT	AAC	TTG	TTA	TTT	GTT	CCT	AGT	AAA	GTC	GAT	GCT	ACC	AAA	TCA	GTG	GTT	CCA	AGT		1580
398	P	N	L	L	F	V	P	S	K	K	V	D	A	T	K	S	V	V	P	S	417
1581	ACA	GAT	AAA	TTA	TTA	GAA	TTA	AAG	TTT	AAC	ATA	TCT	AAC	GAT	CAA	GAG	TAT	GAA	TTA	TTG	1640
418	T	D	K	L	L	E	L	K	F	N	I	S	N	D	Q	E	Y	E	L	L	437
1641	AGA	AAG	AAT	TAC	AAC	ACC	AAA	CAA	AGA	TCT	CAA	TTG	AGT	AAT	CTT	AAT	ATT	GAA	CAT	TCA	1700
438	R	K	N	Y	N	T	K	Q	R	S	Q	L	S	N	L	N	I	E	H	S	457
1701	GTT	CCC	GCA	TTG	CGA	TTA	CAG	ACA	CCT	TAT	TAT	AAA	GTC	AAA	CTT	AGC	ACA	GAT	GAA	ACG	1760
458	V	P	A	L	R	L	Q	T	P	Y	Y	K	V	K	L	S	T	D	E	T	477
1761	AGA	TCA	TTC	CAT	CGA	CCA	GTG	TTT	AAT	GTC	AGA	CCT	GGT	ACA	TTG	GTG	AGC	TTT	TCT	AAA	1820
478	R	S	F	H	R	P	V	F	N	V	R	P	G	T	L	V	S	F	S	K	497
1821	TTG	AAG	TTG	CGG	AAG	CGG	AAA	AAA	GAC	AAG	GGG	AAA	TCT	TTG	CAA	CAG	ATT	TTT	TCC	AAA	1880
498	L	K	L	R	K	R	K	K	D	K	G	K	S	L	Q	Q	I	F	S	K	517
																				C	

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## FIG. 3D

C																					
1881	ACT	AGT	GAC	TTG	ACA	GTT	GCT	GAT	ACT	GGT	AAT	ATA	ATT	GCC	TTA	GAG	TAT	TCC	GAA	CAG	1940
518	T	S	D	L	T	V	A	D	T	G	N	I	I	A	L	E	Y	S	E	Q	537
1941	TAT	CCA	CCA	ATT	TTA	TCG	AAT	TTC	GGG	ATG	GGG	TCG	AAA	TTG	ATC	AAC	TAT	TAT	CGT	AAA	2000
538	Y	P	P	I	L	S	N	F	G	M	G	S	K	L	I	N	Y	Y	R	K	557
2001	GAA	AGA	CCA	AAC	GAC	ACT	TCA	CGT	CCC	AAG	GCT	CAA	ATT	GGG	GAA	ACT	CAT	ATT	TTG	GGG	2060
558	E	R	P	N	D	T	S	R	P	K	A	Q	I	G	E	T	H	I	L	G	577
2061	GTG	GAG	GAT	AGA	TCC	CCA	TTT	TGG	AAT	TTC	GGT	GAA	GTT	GCT	CCT	GGA	GAT	TTT	GTT	CCC	2120
578	V	E	D	R	S	P	F	W	N	F	G	E	V	A	P	G	D	F	V	P	597
2121	ACA	TTG	TAT	AAT	AAT	ATG	GTA	AGA	GCA	CCA	ATT	TTC	AAG	CAT	GAC	AAC	AAA	CCA	ACT	GAT	2180
598	T	L	Y	N	N	M	V	R	A	P	I	F	K	H	D	N	K	P	T	D	617
2181	TTT	CTA	TTG	GTT	AAA	TCT	CAA	GGG	GCT	GGA	TCG	CAC	CAA	AAA	TTT	TAT	TTG	CGA	GGG	ATC	2240
618	F	L	L	V	K	S	Q	G	A	G	S	H	Q	K	F	Y	L	R	G	I	637
2241	AAT	TTC	AAC	TTT	GCT	GTT	GGT	AAC	ACA	TTC	CCA	GTT	GAA	GTT	CCA	GCT	CCT	CAC	TCG	AGA	2300
638	N	F	N	F	A	V	G	N	T	F	P	V	E	V	P	A	P	H	S	R	657
2301	AAA	GTG	ACA	AAT	ATC	TCA	AAA	AAT	AGG	TTG	AAA	ATG	GTA	GTT	TTC	AGA	GTG	ATG	AAT	AGC	2360
658	K	V	T	N	I	S	K	N	R	L	K	M	V	V	F	R	V	M	N	S	677
D																					

# FIG. 3E

D	2361	TTA	GGA	GTG	CCA	CGT	ATT	TCT	GTG	AAA	GAT	GTT	TCC	AAA	CAT	TTT	CCT	GAG	CAT	AGC	GAT	2420
	678	L	G	V	P	R	I	S	V	K	D	V	S	K	H	F	P	E	H	S	D	697
	2421	ATG	CAA	AAT	CGA	CAA	AGA	TTG	AAA	GAA	TTT	ATG	GAA	TAC	CAA	AGA	CAA	GGT	GAG	GAC	CAA	2480
	698	M	Q	N	R	Q	R	L	K	E	F	M	E	Y	Q	R	Q	G	E	D	Q	717
	2481	GGG	TAT	TGG	AAA	GTA	AGA	GGA	TTA	AAC	GAT	GTA	ATT	CCA	GGA	GAA	GAG	GAA	ATT	CGA	ACT	2540
	718	G	Y	W	K	V	R	G	L	N	D	V	I	P	G	E	E	E	I	R	T	737
	2541	ATG	ATT	ACA	CCA	GAA	GAT	TCT	TCA	TTG	ATG	GAC	ACA	ATG	CAA	TTT	GGA	CAG	CAA	GTA	CTA	2600
	738	M	I	T	P	E	D	S	S	L	M	D	T	M	Q	F	G	Q	Q	V	L	757
	2601	GAT	GAT	AAT	ATG	GTG	TTA	TTC	GGT	GAG	CAG	AGC	AGA	CAA	GAA	TCA	TCT	AGA	AGT	AGA	AAA	2660
	758	D	D	N	M	V	L	F	G	E	Q	S	R	Q	E	S	S	R	S	R	K	777
	2661	GGT	GAT	AAA	AGA	GAG	GAT	TCC	ATT	GCG	GAT	GAT	GCA	GAA	AAT	GGA	GAT	GAT	ATA	AAT	AAG	2720
	778	G	D	K	R	E	D	S	I	A	D	D	A	E	N	G	D	D	I	N	K	797
	2721	GAT	AAA	GAG	AAA	GAG	GTT	GAG	AAA	GAA	AAG	GAA	CAG	GAA	AGA	GAA	GAA	GAG	AAA	GGG	AAA	2780
	798	D	K	E	K	E	V	E	K	E	K	E	Q	E	R	E	E	E	K	G	K	817
	2781	GAT	AAG	GAA	AAA	GAC	AAG	GAC	AAA	GAA	AAA	GAC	AAA	ACC	GAG	AAG	GAG	AAA	TCA	AAG	AAA	2840
	818	D	K	E	K	D	K	D	K	E	K	D	K	T	E	K	E	K	S	K	K	837
	2841	TCA	AAG	GAG	CAA	GAC	ACT	GAA	ATT	GAT	GTT	GAA	GAA	TTG	GCA	CCA	TGG	AAC	TTA	TCG		2900
	838	S	K	E	Q	D	T	E	I	D	V	E	E	E	L	A	P	W	N	L	S	857
	2901	AGA	AAT	TTT	GTT	ATC	GCC	AAT	CAG	ACC	AAG	ACA	ATG	CTA	CAA	TTG	AAT	GGT	GAA	GGT	GAT	2960
	858	R	N	F	V	I	A	N	Q	T	K	T	M	L	Q	L	N	G	E	G	D	877
E																					E	

## FIG. 3F

E	_____	E
2961	CCA ACT GGA ATT GGG TTA GGA TTT TCC ATG TTG AGG GCT ACA CAA AAG AAC CCA TTC AAA	3020
878	P T G I G L G F S M L R A T Q K N P F K	897
3021	CCG TTA TTT ACC CCA CCA CCA GAA AAT GTC CCT AAA AGT AAT GCT GCA GCC CAT AAT CAA	3080
898	P L F T P P P E N V P K S N A A H N Q	917
3081	AAG TTG TAC GAA CAA GAG ATA AAA AGA ATA TGG TAC TCT CAA AGA AGC TCT TTA GTT GAT	3140
918	K L Y E Q E I K R I W Y S Q R S S L V D	937
3141	CAT GGG GAA GGA ACT GAA TCA AAG TTG CAA CAG ATC TAT AAT GAG TAC CCG CCA GCA GAT	3200
938	H G E G T E S K L Q Q I Y N E Y P P A D	957
3201	CAT GAA TTG TAT TTG AAA AAC AAA CTT GAA CAA GAC CAA CAG GTA CAA CAA CAA CAA	3260
958	H E L Y L K N K L E Q Q D Q Q V Q Q Q Q Q	977
3261	GAT CCT CTG CTT CAG GCT GAT CAG CAA CAG CAA CAA CAA CAG AAT CGA GTT TTG	3320
978	D P S L Q A D Q Q Q Q Q Q Q Q Q Q Q Q Q Q	997
3321	AGG ATT ACT AGA GTG CGA GAT GAA AAT GGA ATA GTG CAT AGA AAA GTT GAA TTT ATT	3380
998	R I T R R V R D E N G I V H R K V E F I	1017
3381	CAT GAT CCA AGA TTA ATT AGA GCA TAT GTT AAG CGT AAG AAA CAA ATT GAA GAT GAG TTA	3440
1018	H D P R L I R A Y V K R K K Q I E D E L	1037
3441	TTG AAG AAT GCT GAT GTT GAT GAA ATA TTA CCT ACT AAC GAC AAG GAG TTA AAC AAA ATC	3500
1038	L K N A D V D E I L P T N D K E L N K I	1057
F	_____	F

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# FIG. 3G

F		F	
3501	CGT CGT AAA GCA TTG GAA AAG TTG GCT AAT TTG GAG AAA CGG GCA AAA CAA AGC CGG	3560	
1058	R R K A L E E K L A N L E K R A K Q S R	1077	
3561	GCC AAA AAA CCA CCA AAG GAT CTG ATC CAT GCA GCT GCT GCT GCG GCG GCA ACA ATT ATA	3620	
1078	A K K P P K D L I H A A A A G A T I I	1097	
3621	GAT GCT AAT ACT GTG ATG TTA CCA GAT GGA TCG TAT GTT ATT GGT AAG GGT ATT GGT	3680	
1098	D A N T V M L P D G S Y V I G G K G I G	1117	
3681	AAG GGG AAA AGT CGA ACT CGT TGT AAA AAT TGT GGA GCT TAT GGA CAC ATT CGT ACT	3740	
1118	K G K S R T R R C K N C G A Y G H I R T	1137	
3741	AAT GCA AAA TGT CCC TTA TAT AAG AAA ATG GTG CTT GGA ATC GAT GAT TCA GCG GCA	3800	
1138	N A K C P L Y K K M V L G I D D S A A	1157	
3801	GTT GTT GGT TGA caccagcagttagtcaggtgacgttattggagaaaacaccacatctaccgcagtaactcttga	3876	
1158	V V G *	1161	
3877	tacacagcgtatcgagggaacagaaatctggctgaagcgtgaccaatggcaatcaaaaatagatatgaaccagagatagga	3956	
3957	gttactgagttgtcaaaattagagtggaatacgaatgcattttgtctcatcaaaacggacatgaacgagagtgatgat	4036	
4037	gttattgtcagtaataataggttttagtttacatttttaataatgacataataaacaatgtaattattatgcatttctatttgt	4116	

# FIG. 4A

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C. albicans MEDLPRDEAINGLNSNNNNHDKDDDDDEFFNRLQEQQPELJNDEEAAQAAESQFDALFGNSNDFDS 70  
 S.cerevisiae GGDEGANSKYTEHLPAVDFFEDEDELADDDDLPEESDANLHPAMMIMGAYDDVNENGAVLGIDSN-SL 105

C. albicans NISHDHMGDSNGLIIDNNHHSSVNDHGLFNILGNHLLDDNDGINDLGELFDDQQEDSNVINIKKH 140  
 S.cerevisiae NMQLPEINGDLSQQFILEDDGGTPATSNALFMGMDANEIHLATEIGVLDGSG----ANEIGHSQLSIGGV 171

C. albicans KLDGDSNNDGKTAQEDQKEKENKRQLKRQLQKIVKHLKEQIKRNIKYVFTYSRHPFNHKEFFSPSP 210  
 S.cerevisiae NGNDMSINGGFTMEFDMSDGKHKA---TKLD-LINH-EKYLK---KY-FPDEFKCKILKANKLLTYRRS 232

C. albicans QYRYQRPALASKNIKPLIPTKVNLEIEVDQKKIKFLRSADTASLSHEDKNVNITQDDLDFTKNLESK 280  
 S.cerevisiae --VPYHHS-EISRVKKPFMPFLNLKFKVQDDKRLFNSRTISYVAPTYQCKN--NLLQSNSSASRR-GLI 296

C. albicans RSSIDFKEIDVVKRDWINCKFDHYSKDLVLSTIDWDDDAIINAGDNEYSIVKPINELLNPLDNSK 350  
 S.cerevisiae HVSIDELFP-IKEQQKKRKLIHDEKTISEDLLATDWDQEKLINQGISSTATLADSSMTENLKFSGGYK 365

A\_\_\_\_\_A

# FIG. 4B

A \_\_\_\_\_

C. albicans QNRQKIENDNTNN 364  
 S.cerevisiae LKSLIEDVAEDWQW 379

C. albicans EDDIFNGQINLDK-LKLDMDENLLFVPSK-----KVDATKSVVPSIDKLLLELKENISNDQEYEL 436  
 S.cerevisiae DEIMIDAKLKESKHAELMNDKLLMIEKTNNLAQQKQQLDSSNLLPLNETILOQKFNLSNDKQYQI 449

C. albicans LRKNYNTKQRSQLSNINIEHSVPALRLQTPYKVKLSTDEIRSFHRPVF--NVRPGTLVSFSKLLKLRKRK 504  
 S.cerevisiae LKKTHTQTKVVRSTISNLNIQHSQPAINLQSPFYKVAVERYQLRHFHRENFSGSHIRFGIKIVFSKLRKRK 519

C. albicans KDKGKSLQQIFSQTSLTVADTGNIIALEYSEQYPPILSNFGMGSKLINYYRKERPNDTSRPKAQIGEIH 574  
 S.cerevisiae RDKGKDVKESFSTSQDLTGDTAPVYLMYEQTFVALSKFGMANKLINYYRKANEQDTLRPKLPVGETH 589

C. albicans ILGVEDRSPFWNFGEVARGDFVPTLYNNMVRAPIFKHDKNPIDELLVKSQGAGSHQKFYLRGINFNFAVG 644  
 S.cerevisiae VLGVDKSPFWNFGEVFERGHIVPTLYNNMIRAPVFKHDISGIDELLTKSSCGFISNRFYLRNINHLFTVG 659

B \_\_\_\_\_

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C. albicans  
GEDQGYWKVRGLNDVIRGEEIEIRIMITPEDSSIMDIMGQQVLDDNMVLFGEQSROE 771

S. cerevisiae  
GPEKGLWPLKD-DEKLIDNEAVKSLITPEQISOVESMSOGLFOEDNEAYNFD SKLS 786

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C. albicans  
VEEELAPWNL SRNFVIANQTKIMLQINGEGDPTGIGLGFSLRATQKNPFKPLFTPPPENVPKSNAAAHN 916  
: ||: | ||| ::|: :. | : ||: ::| ||||| | |||: ||: |. | : : : : |  
S. cerevisiae  
LEENLLPWNITKFNFTNSIQMRAMIOIHGVGDPTGCGEGFSFLKTSMKGGF-----VKSGSPSSNN 846

C. albicans QKLYEQEIKRIWYSQRSSLVDHGEGTESKLQQIYNEYPADHELYLKNKLEQDQVQQQQQDPSSLQADQQ 986  
:: :::: | :::: : ::::.. |... . | ::. | : | ::. | ::::  
S.cerevisiae NSSNKKGINIHSY----NVAQOQKAYDEIAKTW--YTHIK-SLSISNPFE-----EMINPDEINQINKH 904

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**FIG. 4D**

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[illegible]

C. albicans	IRRKALEEKLANLEKRAKQSAKKPPKDLIHAAAAAGATTIDANTVMLPDGSYVIGCKGIGCKSKSRTRRC	1126
	::   : .       :: .   :. . . :: :  :::  :::  :::  :::	
S.cerevisiae	-QKLLQLLELANLEK-SQQRRARQNSK-RNCGATRTENSVDNGSD-LAGVIDGKAARN--KCNNTTRRC	1038
C. albicans	KNOGAYCHIRINAKCPLYKRMVLGIIDD	1154

C. albicans	KNOGAYGHIRTNAKCPLYKKMVLGIDDD	1154
	.  .       .  : ... .	
S.cerevisiae	ATCGOIGHIRTNKSCFYSSKDNPASEK	1066



**FIG. 5A**

[illegible]

A \_\_\_\_\_ A \_\_\_\_\_

**FIG. 5B**

A

[illegible]

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**FIG. 5C**



875 E G D P T G I G L G F S M L R A T Q K N P F K P L F T P P P E N V P K S N - - - - A A A H N Q K L I Y E Q I E I K R C. albicans  
815 V G D P T G C G E G F S F L K T S M K G G F V K S G S P S S N N S S N K K G T N T H S Y N V A Q Q K A Y D E E I A K S. cerevisiae  
741 E G D P T G I G E G Y S F I R T S M K G G F K P A G E T A D D K P E P Q T K - - N A H A Y N V A K Q Q R A Y E E E I N R S. pombe

927 I W Y S Q R S S L V D H G E G T E S K L Q Q I Y N E Y P P A D H E L Y L K N K L E Q D - - Q V Q Q Q Q Q P S L Q A C. albicans  
875 I W Y T H T K S L - - - - - S I S N P F E E - - - - M T N P - - - - D E I N Q - - - - T S. cerevisiae  
799 I W N A Q K R G L - - - - - S I N N L - E E - - - - L A K K Y G I N S I H D - - - - D S. pombe

894 - - D Q Q Q Q Q Q Q - - - N R V L R I T R V R D E N G I V H R K V E F I H D P R L I R A Y V K R K Q I E D E L C. albicans  
 892 - - N K H V K T D R D D - - - K K I L K I V R K K R D E N G I I Q R T I F I R D P R V I Q G Y I K I K E Q D K E D V S. cerevisiae  
 828 Y V E S N E E T T R E E T P S S D K V L R I V R L Y R D K N G N L E R K Q E T I H D P I V I H A Y L K K R R E I D E Q - S. pombe

[illegible]

098 D A N T V M L P D G S Y V I G G K G I G K G K S R T R R C K N C G A Y G H I R T N A K C P L Y K K M V L G I D D S A A C. albicans  
013 D N G S D L - - - A G V T D G K A A R N K G K N T T R R C A T C G Q I G H I R T N K S C P M Y S S - - - - K D N P A S. cerevisiae  
32 - - - - - - - G I N L N G E G R - - - K P T T R R K C S N C G Q V G H M K T N K I C P L F G R - - - - P E G G L S. pombe

158	V	V	-	-	-	G	<i>C. albicans</i>
064	S	P	-	-	-	K	<i>S. cerevisiae</i>
73	A	T	M	L	D	K	<i>S. pombe</i>

158 V V - - - G  
064 S P - - - K  
73 A T M L D K N

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## FIG. 6A

```

1 MEID --- LPRDEAT NGLNSNNNNNDKDDDDDDDEF --- NRIIDE --- GQPELTNDEE --- C. albicans
1 M --- VKQGS GKTNLANEAEYEAIEGGEF --- GLEIGSYIGDEGANSKD --- S. cerevisiae
1 MS --- FDGLI - VENENIKSGYNDGNDL --- TDLFKQN --- IGTDMSVINS --- S. pombe
1 MESS --- SDDGESSIGNGLDLTGILFGNIDSEGRLLDDDDGEGRGITGFDAELRENIGSLSKL Drosophila
1 HGGPGCDLLRTAATITAAAIMSDTOSDESAGGGEFISLAGFLFGNINGAGQL --- EGESVLDDECKKHLGLAL Human
48 - MAQAASQEF --- DALLFGNSNDQFDSNISHHDMHGGDSNIGIIDNNHSSVN --- DHGGLFNNLGN --- GN C. albicans
47 - YTEHLPDAVDE --- EDEDELAADDQDLPEESDANLHPAMTMGAYDDVNEHNGAVLIGIDSNLNMQLPIEINGDLISQQ S. cerevisiae
40 - LLD --- INPGMNESPCKILLDSFENSNDQDPNYEDDFNGSINKEFGNNINEM - DDMEDVSDI --- S. pombe
61 GILD'SMLLEIVIDLKEAPPSSDDEEEEDARPSAVSAGGMSAFDALKAGVKKREEREDGAVKQDDAIDYSDIETIELEDCPRT Drosophila
73 GLGSLITIEL --- IANEEITGTGTGALVN --- DEGMVRSSTEDAVDYSDINIEVAEDESRR Human
109 HLLDIDNDGINDL - GEFLDQQQEDSNVINIKRHKLD DDISN --- NDGKTAIO --- EDQKEKENRQLKRDKLQKIV C. albicans
120 FILLDIDGGTPATS - NALFMGMDANEIHLATETGVLDGSGA --- NEIGHISQLSIGVNGNDMSINGGFIIEEDMISDGKH S. cerevisiae
101 - NLPDEEQAVN --- YTGDKDDEDF --- GKLLAKEN --- GLEAAGGV --- LSGVGFSPSGLVPPSEPIKTVS S. pombe
141 P --- DEETSITIDQL - EDAPASKVEAKLTQDKKELMPPPSAP --- MRSGLGGGIEEPAKSNDAASPSDDSK --- SSTDSK Drosophila
124 Y --- QQTMGSLQPL CHSDYDEDDYDADCEDIDCKLMPDPPPPMPKDKQDSITGIEKVDFSSSDSESENGIPQEAITQAE Human
176 KHEKEQ --- IKRNK - Y --- YFPTYSRHRPFNEHKEF --- SPQYRYQRDAIALSKINIKPLIPTKVNLI --- C. albicans
194 KKAIEQ --- L INHEK - YL --- LKKYFPDIFEGKILKWNKLI --- YRISVPYHHS --- EISRKKKPFMPLNLF --- S. cerevisiae
160 STIEELQ --- NEAQRESI - VMTFPFERGVLLNFSELF --- KKPVI --- KLAPEK --- KRTPKVCVPGRLTL --- S. pombe
210 DADRKLTPLADILPSKYQNV - DIVRIELFPDFRPQKVLRFSLRIFGPGKPTSLPQIWRHVIRKRRKRNRQSRDQKTTTGG S Drosophila
202 SEDGKLTPLAGIMQHDATKLLPSVTELEPEERPGKVLRELRLGPGK --- NVPSPVWRSARRRKRRKRRKRELIQEE - IQEV Human
237 - EIEVDOKKIFKLRSDTASLSH --- EDKNVTNITQDLDLFINKLESKRSTDSFKIE --- C. albicans
256 - EVQDQDKRLFNISRTISYVAIY --- QGKN --- NLLQSNSSAISRRGLIHVSIDE --- S. cerevisiae
221 - EVDTDYAITFNSK --- --- KSLPLKRNVSIP --- --- S. pombe
288 DSPSDTELEPKRGESESHYAAEPTIAECMSDDIEDKLLGDFNSEDVRPEGPDNGENSDQKPKVADWRFGPAQIMYDILEVPD Drosophila
279 ECSVSEISVISQSLWNVYDIAPPPPEEQCLSDDEITMMAPVESKFSQSTG - DIDKVTDTKPRVAEWRYPARLWYDMLGVPE Human
291 - LDIVKROWTNC - KIFDHYSK --- ID --- LVLSITDMDDDAITINAGDNEYSIVKPIHIEL --- C. albicans
303 - LFPKEQKKR --- XITHDEK TISED --- LIAIDDMQDEKIIINQGT --- SIATLADSS --- S. cerevisiae
246 - STHKKRRRTA --- NTSQRNDGLDLN --- TIVFTINDWEKNIITIDESDVNKTNSSE --- S. pombe
368 SGEFGNYGFKTKAASTSSQQQLKDERBVKSPEDVEDPSIADDAFLMVSQIHWEDDVVMGNDIKR AKVLQKLN SKTNAAG Drosophila
358 DSGGFDYGEKLBKTEHEPVIKSRMTEEFKRLKENNGTDLADENFLLMVTQLHWEDDIIMDGEDVKHKGTK --- PQRASLAG Human
342 - LNNPQNSKQNRQKRIENDTNNY --- NQNSNVQDIEE C. albicans
354 - MTPNLKFSGGYKLSLIEOVAEDM --- QMDEMI DAK S. cerevisiae
297 - FIDKSLVD --- IDFA S. pombe
448 WLPSSGSRTAGAFSQPGKPSMPVSGSSKQSGASSKKAQONAOAKPAEPDDTWYSLFPVENEELIYKWEDEVIMDAQ Drosophila
436 WLPSSMTRNAYN --- VQGGFAATLD --- DKPMYSIFPIEDNEDLVYGRWEDNIIIMDAQ Human

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A \_\_\_\_\_ A

## FIG. 6B

A

A

377 EDDIENGQI - - - - - NL - - - - - DKLKLDMND - - - - - DNLLEVDS - - - - - KKVDATKSVV - - - - - PSTDKL - L - E C. albicans  
 389 LKESK - HAEL - - - - - NMNDEKLLMIEK - - - - - TNNLAQQK - - - - - QLDSINLIL - - - - - DLNETI - LLQ S. cerevistae  
 399 FKENIEDGDT - - - - - GTSKVVLNLND - - - - - PKLLOPQLPKKESORSFA - - - - - DTHQRNSLLA S. pombe  
 528 QVSKVPKPKVLTLDPNDENILGIPODIDSKINKSTGPIPIKIKIPHPHVKSKILLGKAGVINVLAEDTPPPKSPDR Drasophila  
 490 ANPRLLEPPVLTLDPNDENILEIPDE - - - - - KEEAISNSPSKESKESLKKSRILLGTGVIK - - - - - EEPQQNMSQPEVK Human  
 424 LKFNISNDQEYELLRKNYNTKQRSQLS NLNIEHSVIPA LRLQTPYYKVKLISTDETRSFHRP"F - - - - - NVRPIPGTLVSIFS C. albicans  
 437 QKFNLSNDDKYQILKKTHQTKVRSTIS NLNIQHSQPA INLOS PEYKVAVPRYQLRHEHRENF - - - - - GSHIRPGIKIVFS S. cerevistae  
 359 MKFNISNDPATEMLKQNHQSKVRNILS QLAIEHAAFA EKLTFPYYKTRISKRAVRSYHRPTM - - - - - S - - - - - FKPNAAIVFS S. pombe  
 608 DPENISNDTYT - - - - - PKTEPTLRLKVGGNLIQHSTPVELRA PEVPITHGPMNVRAIFHRPPLKKYSHGPMAQSIPHPVEP Drasophila  
 563 DPMISNDEYY - - - - - PK - QQGLRGIFGNILQHSIPAVELRQPEFPITHGPIKLRQEHRPPLKKYSFGALSQPGPHSVQP Human  
 497 KLRKRKKGKSLQQI - - - - - FSKISOLTVADTGNILAEYSEQYPPILSNFIGMGSKLINYYRKERPNDTSRPKAQ C. albicans  
 512 KLKARKRKDKGKDVKES - - - - - ESTSQDLTIGDTAPVILMEYSEQTPVALSKFIGMANKLINYYRKAINEQDILRPKLP S. cerevistae  
 432 PLIVRKRSKDKHXSEREL - - - - - IPTIKEIMGDTHALVEFSEEHPAVLSNAIGMASRIVNYYRKKNEQDESRPKLE S. pombe  
 685 LLKTIAKKAQREVERTAISGGGDVFFRNPEDLSGRDIVLAEECEEHPPLINQVGMCSKIKNYYRKAEKOSGPQDYV Drasophila  
 639 LLKHIKKAKMREQERQASGGGEMFEMRTPQDLTGKDGDLLAEYSEENGPLMNQVGMATKIKNYYRKPGKQPGADCK Human  
 570 IGETHILGVEDRSPFWNFGEVAPGDFVPTLYNNMVRAPIFKHDNKPDFLVKSQAGSHQKFYLRGINFNAVGNTFPV C. albicans  
 585 VGEIHVLGVQDKSPFWNFGEVEPGHIVPTLYNNMIRAPVFKHDISGTDFLLTKSSGFISNRFYLRNINHLFITVQTFPV S. cerevistae  
 505 VGESHVLDVQDRSPFWNFGSVEPGEITPLYNNMIRAPLFKHEVPPIDFILRNSS - SYGSKYYLKNINHMEVSGQIEPV S. pombe  
 765 YIGEV - - - - - AFAHTSPF - LGILHPGQIQAIENNMYRAPIYPHKAHNDFLVIRTR - - - - - NNYWIRSVNSIYTVGECPL Drasophila  
 719 YIGEI - - - - - VYCHISPE - LGSLHPGQLLQAFENNLFRAPIYLHKKMETDELILTR - - - - - QGYYIBELVDIFVVGQCPL Human  
 650 EVPAPNSRKVTNISKNRLKMVVFRVM - - - - - NSLGVPRISVKDVSKHFPEHSDMQNRQRLKEFMEYQRQIEDQGYWKVRGLN C. albicans  
 665 EEIPGPNSRKVTSMKATRLKMIIYRIL - - - - - NHNHSKAISIDPIAKHFPDQDYGQNRQKVKEFMKYQRDIGPEKGLWRLKD - D S. cerevistae  
 584 TDVPGPHSRKVIIASKNRLKMLVERLI - - - - - RIRSPNGGLFIROLSKHFSDONEMOIRORLKEFMEYKKIGDGPGYWKLKS - N S. pombe  
 835 YIEVPGPNSKRANNFTRDFLQVIFIRLFWKSRDNPRRIRMEDIKAFPAHSESIRKRLKQCADFKRTGMDSNNWVIKS - E Drasophila  
 789 FEVPGPNSKRANIHIRDFLQVIEIYRLEWKSKDRPRRIRMEDIKAFPSHSESIRKRLKLCADFKRTGMDSNNWVIKS - D Human  
 727 DVIPGEEFIRTMITPEDSSLMDTMQFGQQVLDDNMVLF  
 742 EKLLDNEAVKSLITPEISQVESMSQGLOFQEDNEA - Y  
 661 EVVPDEAGIRSMVSPETVCLLESMQVGVRQLEDAG - - - - - Y  
 914 FRLPSEEIRAMVSPECCAYSMAEQRLKDAG - - - - - Y  
 868 FRLPTEEEIRAMVSPEOCCAYSMAEQRLKDAG - - - - - Y

C. albicans  
 S. cerevisiae  
 S. pombe  
 Drosophila  
 Human

B

B

090197-102000

36. F/G.



847	V E E E L A P W N I S R N F V I A N Q T K I M L Q L N G E G D P T G L G L G F S M L R A T A Q K				N P I F K P L F	-	C. albicans
787	L I E E N L L P W N I T K N F I N S T Q M R A M I Q I H G Y G D P T G C G E G F S F L K T S M K				G G F V K S G	-	S. cerevisiae
713	A I E Q L L A P W I T T R A Y I Q A M R I G K A M L L J S I G E G D P T G C G E G F S F I R S M K				G G E X I P A G	-	S. pombe
972	E V K V A P W N T T R A Y I Q A M R I G K A M L L J S I G E G D P T G C G E G F S F I R S M K						Drosophila
926	E V R T A P W N T I R A F I A A M K G K C L L E V T G Y A D P T G C G E G F S Y K I P N K P T Q Q K O D K E P Q P V K K T V T G T D A D L R L S L K N A K Human						
901					T P P P E N V P K S N A A		C. albicans
841					S P S S N N S S N K R G T N T H S Y N V A Q Q K A Y D E E I A K T W Y T H T K S L V		S. cerevisiae
767					E T A D D K P E D Q T K - - N A H A Y N V A K Q Q R A Y E E E I N R I M A Q K R G L		S. pombe
1050	E L L R Q F K V P E E I K K L S R W E I D V V R T L S T E K A K A G E G M D K F S R I G N R F S I A E H Q E R Y K E E C Q R I F D L Q N R V L A S S E V L S						Drosophila
1005	Q L L R K F G V P E E I K K L S R W E I D V V R T M S T E Q A R S G E G P M S K F A R G S R F S V A E H Q E R Y K E E C Q R I F D L Q N K Y L S S T E V L S Human						
937					P A D - H E L Y L K N K L E Q D Q V Q Q Q Q P S L Q A D D Q Q Q Q Q Q Q - - -		C. albicans
884					I N Q T N K - - -	H V K T D R D D K - - -	S. cerevisiae
808					I N S I H D D Y V E S - - -	N E E T T R E E T P S L - - -	S. pombe
11130	T D E A E I S A I S E S D L E E L G K N L E N M L S N K K T S T Q L S R E E L E R Q E L R Q L D E E H G G P S G S G A K G A K G K D P G Q Q M L A T N						Drosophila
1085	T D - T D S S S A E D S D F E E M G K N I E N M L Q N K K T S S Q L S R E E E R K E L Q R M L L - - - A A G S A A S G N N H R D D D T A S V T S L N S S Human						
994					N R V L R I T R R V R D E N G T V H R K Y E F T H D P R L T R A Y V K R K K Q I E D E L L K N A D V D E I L P T N D K E L N K I R K A L E E K L A N L E K		C. albicans
913					K I L K I V R K K R D E N G T I Q R T F I R D P R V I Q G Y I T K E K D K E D V N K L L E E D T S K I N N L E E L E K - Q K K L L L L E L A N L E K		S. cerevisiae
844					D K V L R I V R L R D K N G L E R Q E T I H D P T I T H A Y L K - K R R E I D E Q S T A L D A V P T G D E A I D - R R - N R R L E Q E L A K S Q K		S. pombe
1220	N Q G R I L R I T R T F R G N D G K E Y T R V E T V R R Q P V I D A Y I K I R T T K D E Q I K Q F - - - A T L D E Q Q K E E M K R E K R R I Q E Q L R R I K R						Drosophila
11160	A T G B C L K I Y R T F R D E E G K E Y V R C I E T V R K P A V I D A Y V R I T R I T K D E E F I R K F - - - A L F D E Q H R E E M K R E R R I T O E Q L L R L K R Human						
1072	R A K Q S R A K K P P K D L I H A A A A G A T I I D - - -				A N T V M L P D G S Y V I G G K G I G K G K S R I R - - - R I C K N C G A Y G H I R T N I A K C P L		C. albicans
989	S Q O R R A I A R O N S K R - - N G G A T R T E N S V D - - -				M G S D L - - - A G V T D G K A A R N K G K N T T R - - - R C A T C G Q I G H I R T N K S C P M		S. cerevisiae
919	N M E R R A R H A A X - - -				E G I N L - - - N G L - E G R - - -	K P T T R - - - K C S N C G Q V G H M K T N I C P L	S. pombe
1287	N Q E R E B L A Q L A Q N K L Q P G G M P T S L G D P K S S G G H S H K E R D S G Y K E V S P S R K K F I K L P D L K L K C G A C G V G H M R T N K A C P L						Drosophila
1237	N Q E K E K L - - -				K G P P E K K P - - -	K K M K E R P D L K L K C G A C G A T I G H M R T N K F C P L Human	
11144	Y K K M V L G I D D D S A A V V G						C. albicans
1056	Y S S K - - - D W P A S P - - - K						S. cerevisiae
965	F G R P - - - E G G L A T M L D K N						S. pombe
1367	Y S G M Q S S L S Q S N P S						Drosophila
1282	Y Y Q T N A P P S N P V A M						Human

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30° C

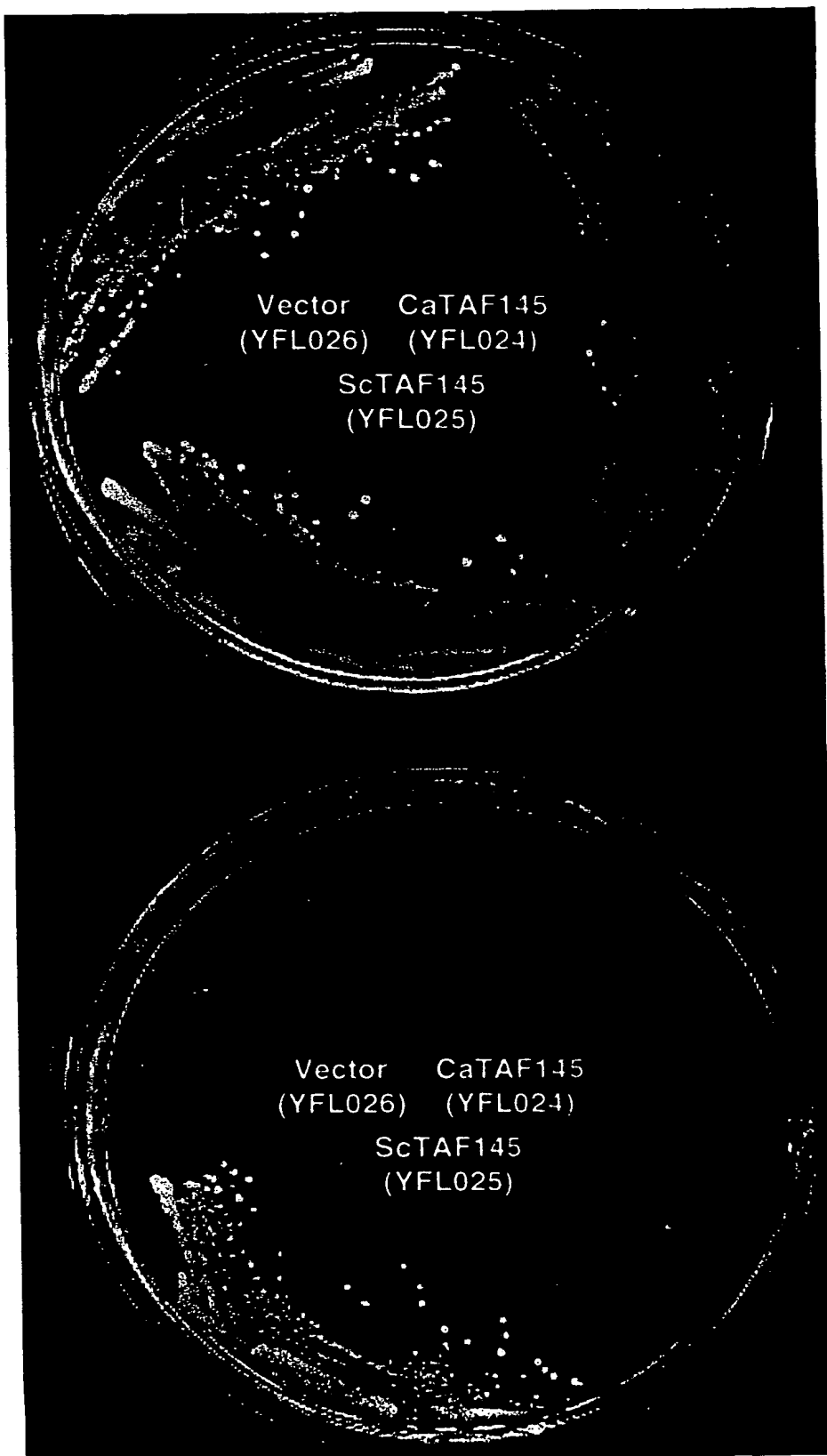


FIG. 7A

37° C

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SC - Leu

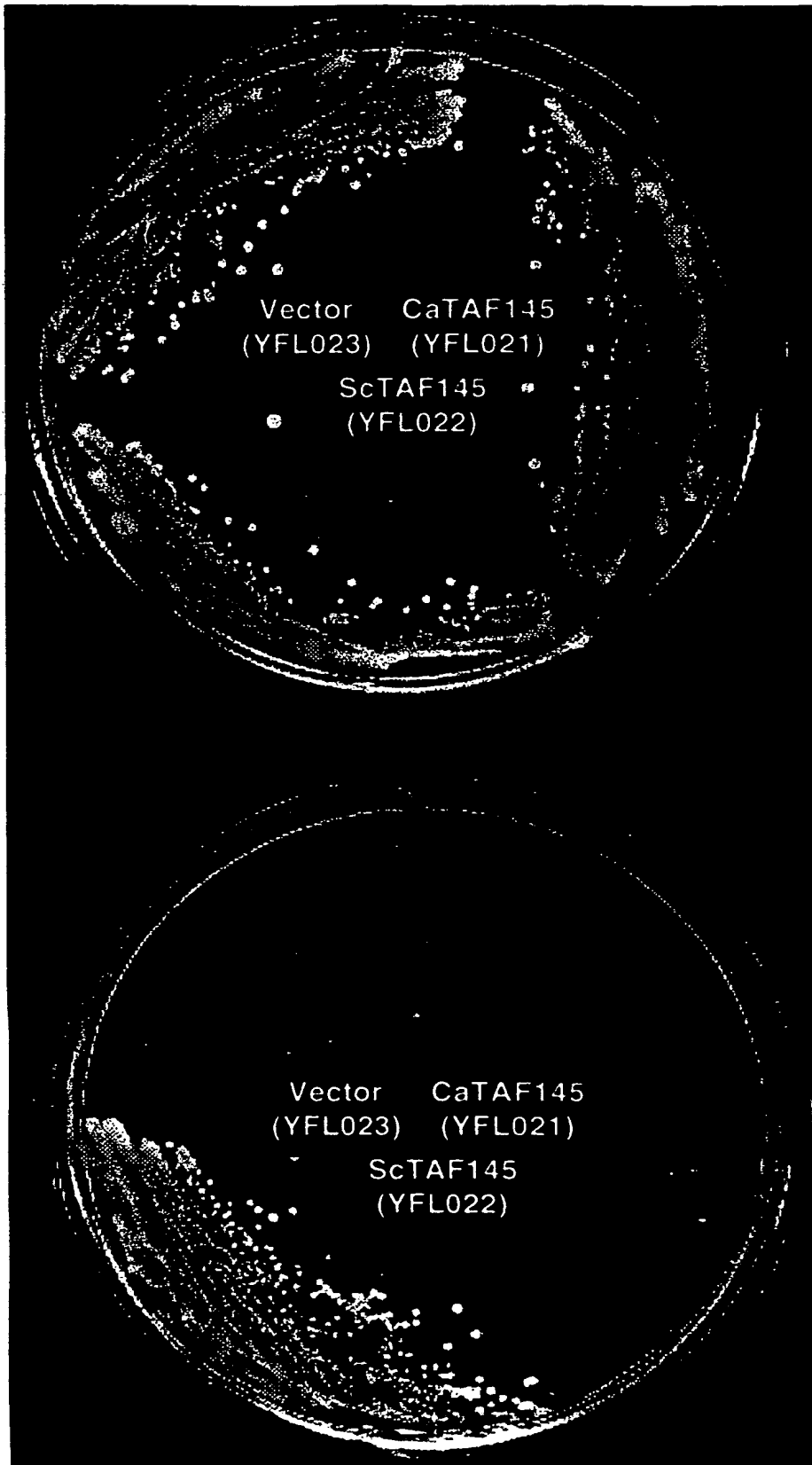


FIG. 7B

SC - Leu + 5-FOA



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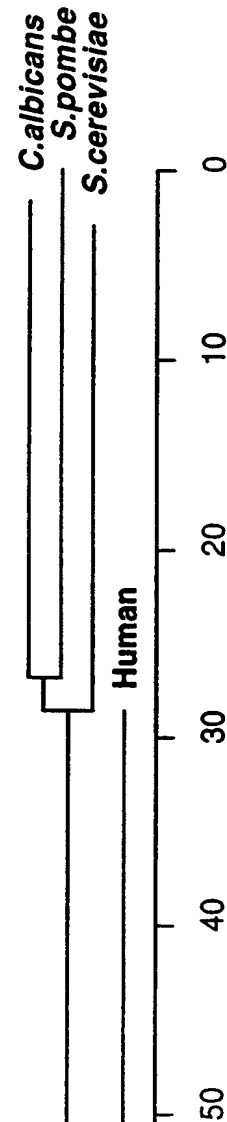
**FIG. 8A**

339	E	L	--	L	N	N	P	L	D	N	S	K	Q	N	R	Q	K	I	E	N	D	N	I	T	N	--	Y	--	--	--	--	--	--	N	Q	N	C.	albicans															
354	--	--	--	M	T	P	N	L	K	F	S	G	G	Y	K	L	K	S	L	I	E	D	V	A	E	D	--	W	--	--	--	--	--	--	Q	W	D	S.	cerevisiae														
288	--	--	--	--	V	N	K	T	N	Q	S	S	F	F	I	D	K	S	L	V	D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S.	pombe															
432	S	L	A	G	W	L	P	S	S	M	T	R	N	A	M	A	Y	N	V	Q	Q	G	F	A	A	T	L	D	D	K	P	W	Y	S	I	F	P	I	D	N	E	D	L	V	Y	G	R	W	E	Human			
369	N	S	N	V	Q	D	E	E	E	D	D	I	F	N	G	Q	I	--	--	N	L	--	D	K	L	K	L	D	M	N	D	P	N	L	L	F	V	P	S	--	--	K	K	V	D	A	T	C.	albicans				
381	E	D	M	I	I	D	A	K	L	K	E	S	K	--	H	A	E	L	--	--	N	M	N	D	E	K	L	L	L	M	I	E	K	T	N	N	L	A	Q	Q	K	--	--	Q	Q	L	D	S	S	S.	cerevisiae		
305	--	--	--	I	D	F	A	F	D	E	N	I	F	D	G	D	T	--	--	--	G	T	S	K	V	V	L	N	L	N	D	P	K	L	L	L	Q	P	Q	L	P	K	K	E	D	S	Q	S.	pombe				
482	D	N	I	I	W	D	A	Q	A	M	P	R	L	L	E	P	P	V	L	T	L	D	P	N	D	E	N	L	I	L	E	I	P	D	E	K	E	E	A	T	S	N	S	P	S	K	E	S	K	K	Human		
412	K	S	V	P	S	T	D	K	L	--	L	E	L	K	F	N	I	S	N	D	Q	E	Y	E	L	L	R	K	N	Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N	T	K	C.	albicans				
425	N	L	I	L	P	L	N	E	T	I	--	L	Q	K	F	N	L	S	N	D	D	K	Y	Q	I	L	K	K	T	H	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Q	T	K	S.	cerevisiae				
346	R	S	F	A	D	T	H	Q	R	N	S	L	A	W	K	F	N	I	S	N	D	P	A	Y	E	M	L	K	Q	N	H	--	--	--	--	--	--	--	--	--	--	--	--	--	Q	S	K	S.	pombe				
532	E	S	--	S	L	K	K	S	R	I	L	L	G	K	T	G	V	I	K	E	E	P	Q	Q	N	M	S	Q	P	E	V	K	D	P	W	N	L	S	N	D	E	Y	Y	P	K	Q	Q	G	Human				
445	Q	R	S	Q	L	S	N	L	N	I	E	H	S	V	P	A	L	R	L	Q	T	P	Y	Y	K	V	K	L	S	T	D	E	T	R	S	F	H	R	P	--	--	--	--	--	--	V	F	--	N	V	C.	albicans	
458	V	R	S	T	I	S	N	L	N	I	Q	H	S	Q	P	A	I	N	L	Q	S	P	F	Y	K	V	A	V	P	R	Y	Q	L	R	H	F	H	R	E	--	--	--	--	--	--	N	F	G	S	H	I	S.	cerevisiae
380	V	R	N	T	L	S	Q	L	A	I	E	H	A	A	F	A	E	K	L	T	F	P	Y	Y	K	T	R	L	S	K	R	A	V	R	S	Y	H	R	P	--	--	--	--	--	--	T	M	S	--	F	S.	pombe	
580	L	R	G	T	F	G	G	N	I	I	Q	H	S	I	P	A	V	E	L	R	Q	P	F	F	P	T	H	M	G	P	I	K	L	R	Q	E	H</																

A

# FIG. 8B

A		A	
581	R S P F W N F G E V A P G D F V P T L Y N N M V R A P I F K H D N K P T D F L L V K S Q G A G S H Q C. albicans	581	R S P F W N F G E V A P G D F V P T L Y N N M V R A P I F K H D N K P T D F L L V K S Q G A G S H Q C. albicans
596	K S P F W N F G E V E P G H I V P T L Y N N M I R A P V F K H D I S G T D F L L T K S S G F G I S N S. cerevisiae	596	K S P F W N F G E V E P G H I V P T L Y N N M I R A P V F K H D I S G T D F L L T K S S G F G I S N S. cerevisiae
516	R S P F W N F G S V E P G E I T P T L Y N K M I R A P L F K H E V P P T D F I L I R N S S - S Y G S S. pombe	516	R S P F W N F G S V E P G E I T P T L Y N K M I R A P L F K H E V P P T D F I L I R N S S - S Y G S S. pombe
727	T S P F - - L G S L H P G Q L L Q A F E N N L F R A P I Y L H K M P E I T D F L I I R T R - - - Q Human	727	T S P F - - L G S L H P G Q L L Q A F E N N L F R A P I Y L H K M P E I T D F L I I R T R - - - Q Human
631	K F Y L R G I N F A V G N T F P V E - V P A P H S R K V T N I S K N R L K M V V F R V M - - N S C. albicans	631	K F Y L R G I N F A V G N T F P V E - V P A P H S R K V T N I S K N R L K M V V F R V M - - N S C. albicans
646	R F Y L R N I N H L F T V G Q T F P V E E I P G P N S R K V T S M K A T R L K M I I Y R I L - - N H S. cerevisiae	646	R F Y L R N I N H L F T V G Q T F P V E E I P G P N S R K V T S M K A T R L K M I I Y R I L - - N H S. cerevisiae
565	K Y Y L K N I N H M F V S G G Q T F P V T D V P G P H S R K V T T A S K N R L K M L V F R L I - - R R S. pombe	565	K Y Y L K N I N H M F V S G G Q T F P V T D V P G P H S R K V T T A S K N R L K M L V F R L I - - R R S. pombe
770	G Y Y I R E L V D I F V V G Q Q C P L F E V P G P N S K R A N T H I R D F L Q V F I Y R L F W K S K Human	770	G Y Y I R E L V D I F V V G Q Q C P L F E V P G P N S K R A N T H I R D F L Q V F I Y R L F W K S K Human
678	L G V P R I S V K D V S K H F P E H S D M Q N R Q R L K E F M E Y Q R Q G E D Q G Y W K V R G L N D C. albicans	678	L G V P R I S V K D V S K H F P E H S D M Q N R Q R L K E F M E Y Q R Q G E D Q G Y W K V R G L N D C. albicans
694	N H S K A I S I D P I A K H F P D Q D Y G Q N R Q R Q K V K E F M K Y Q R D G P E K G L W R L K D - D E S. cerevisiae	694	N H S K A I S I D P I A K H F P D Q D Y G Q N R Q R Q K V K E F M K Y Q R D G P E K G L W R L K D - D E S. cerevisiae
613	S P N G G L F I R Q L S K H F S D Q N E M O I R Q R L K E F M E Y K K K G D G P G Y W K L K S - N E S. pombe	613	S P N G G L F I R Q L S K H F S D Q N E M O I R Q R L K E F M E Y K K K G D G P G Y W K L K S - N E S. pombe
820	D R P R R I R M E D I K A F P S H S E S S I R K R L K L C A D F K R T G M D S N W W V L K S - D F Human	820	D R P R R I R M E D I K A F P S H S E S S I R K R L K L C A D F K R T G M D S N W W V L K S - D F Human
728	V I P G E E I R T M I T P E D S S L M D T M Q F G Q Q V L D D N M V L - F G E Q C. albicans	728	V I P G E E I R T M I T P E D S S L M D T M Q F G Q Q V L D D N M V L - F G E Q C. albicans
743	K L L D N E A V K S L I T P E Q I S Q V E S M S Q G L Q F Q E D N E A Y N F D S K - - L K S L S. cerevisiae	743	K L L D N E A V K S L I T P E Q I S Q V E S M S Q G L Q F Q E D N E A Y N F D S K - - L K S L S. cerevisiae
662	V V P D E A G T R S M V S P E T V C L L E S M Q V G V R Q L E D A - - - G Y G K T - - M D E S. pombe	662	V V P D E A G T R S M V S P E T V C L L E S M Q V G V R Q L E D A - - - G Y G K T - - M D E S. pombe
869	R L P T E E E I R A M V S P E Q C C A Y Y S M I A A E Q R L K D A - - - G Y G E K S F F A P E Human	869	R L P T E E E I R A M V S P E Q C C A Y Y S M I A A E Q R L K D A - - - G Y G E K S F F A P E Human



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FIG. 9

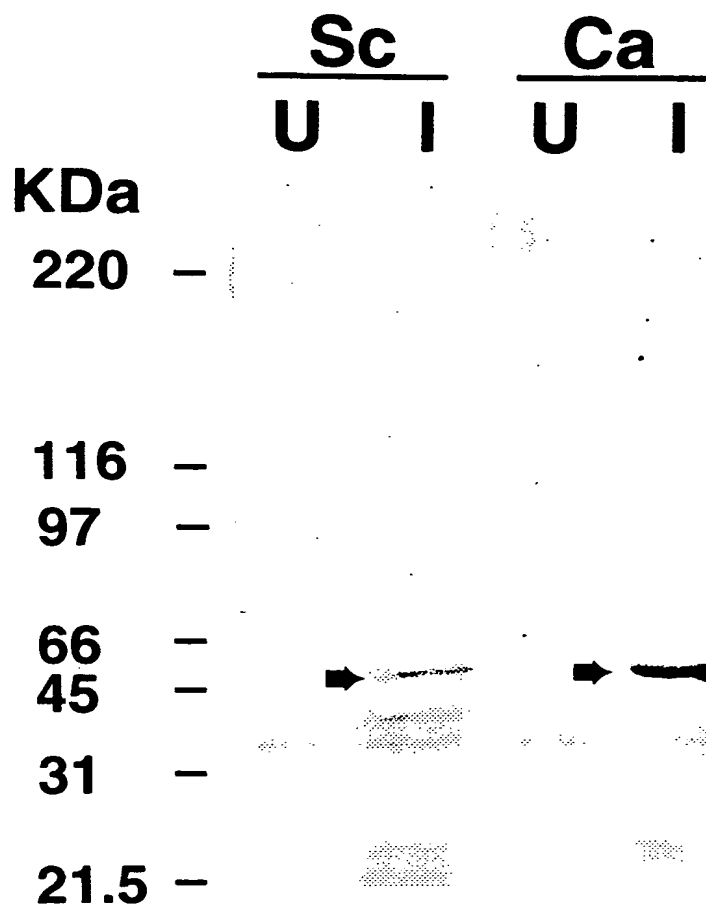


FIG. 10A

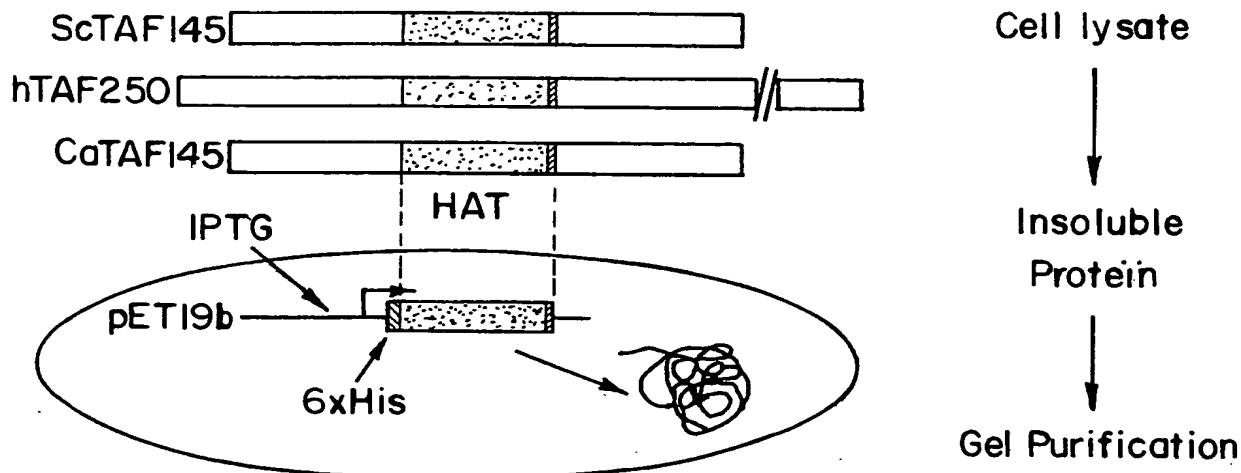
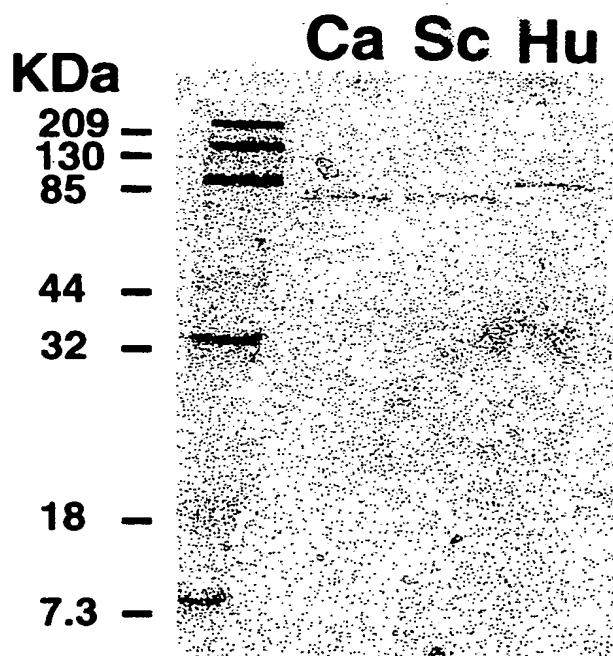


FIG. 10B



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FIG. 11

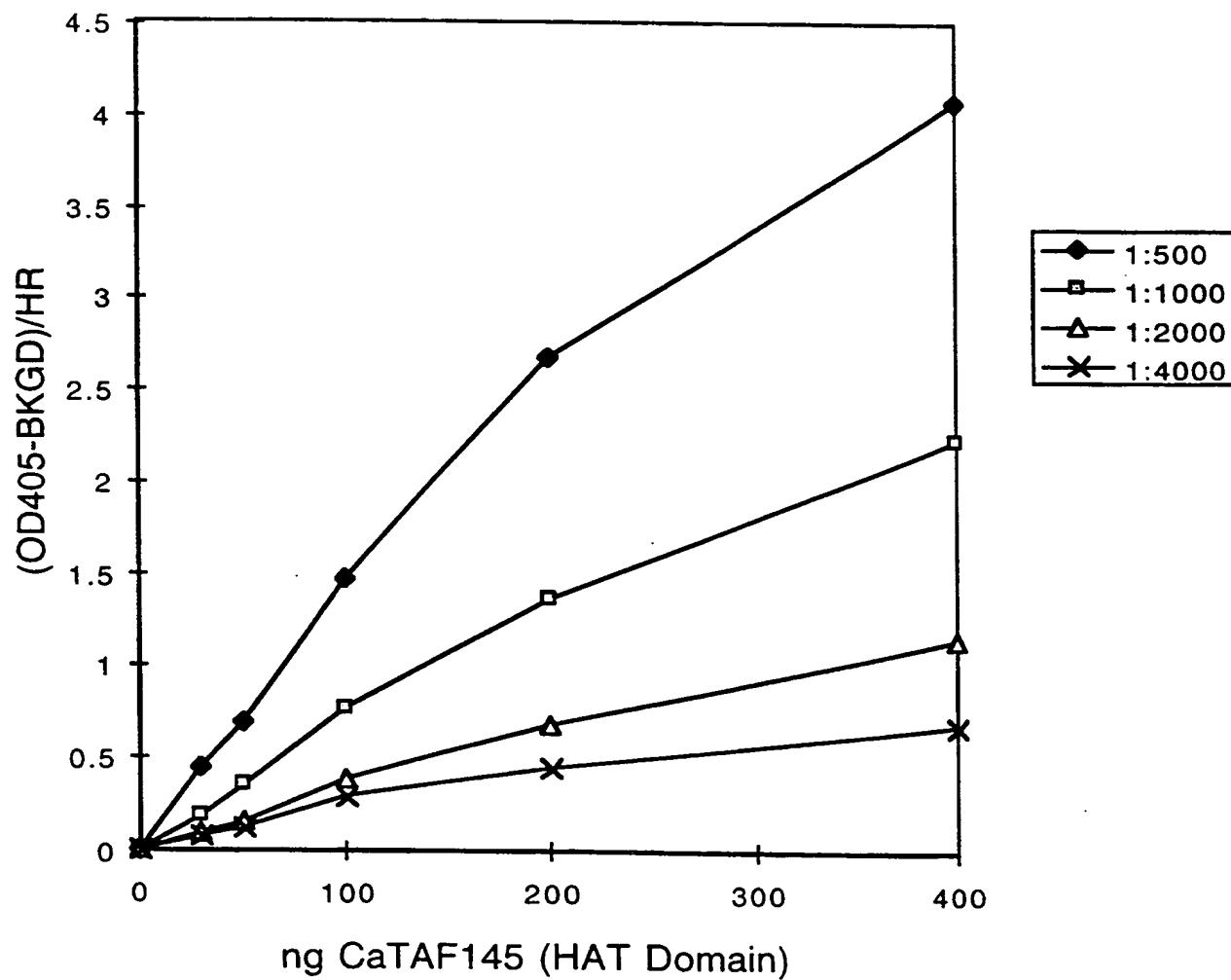
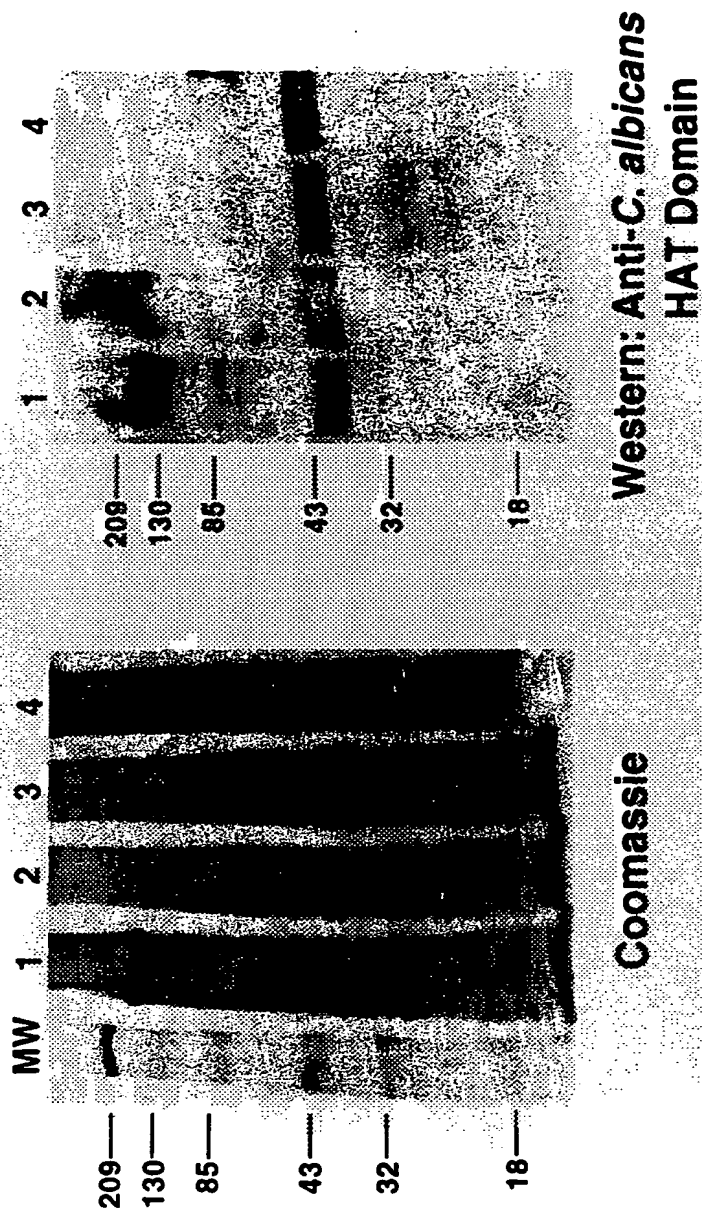
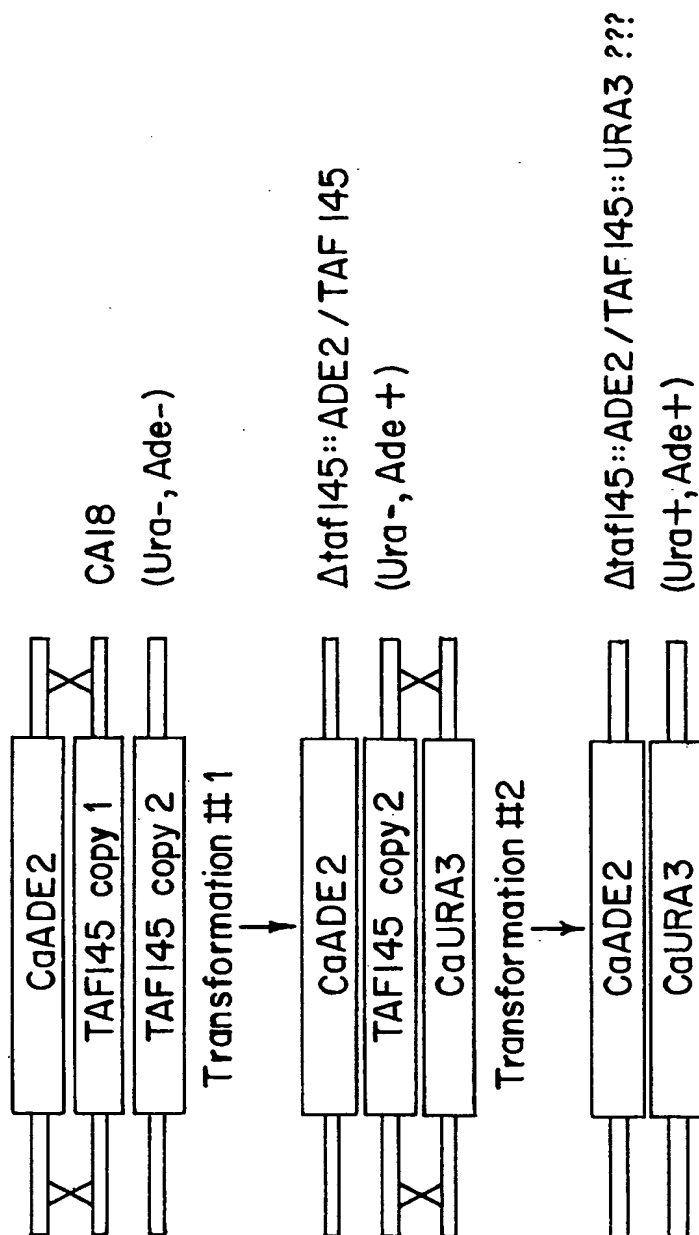


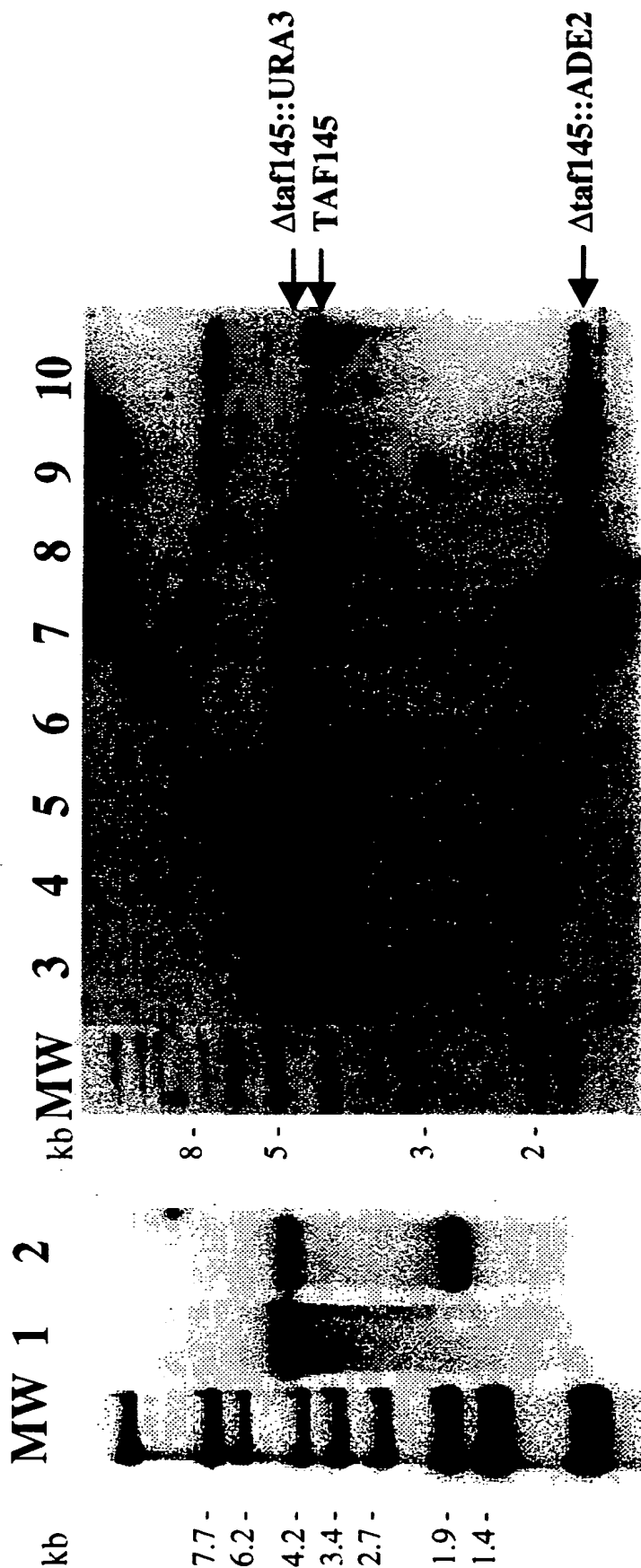
FIG. 12



1. Human TAF infected High-five cells
2. *C. albicans* TAF High-five infected cells
3. Mock-infected High-five cells
4. Non-infected High-five cells

FIG. 13A





Lane

- 1 TAF145/TAF145 (CAI8)
- 2 Δtaf145::ADE2 / TAF145
- 3 TAF145 / Δtaf145::URA3
- 4-10 Δtaf145::ADE2 / TAF145, Ura+

FIG. 13B